

What is claimed is:

1. An electrocorrosion preventive rolling bearing assembly which comprises:

an inner raceway member;

an outer raceway member;

at least one circumferential row of a plurality of rolling elements rollingly interposed between respective raceway grooves of the inner and outer raceway members;

an electrically insulating layer formed on at least one of the inner and outer raceway members so as to cover a peripheral surface and opposite annular end faces of such at least one of the inner and outer raceway members, the peripheral surface of such at least one of the inner and outer raceway members being engageable with either a housing or a shaft; and

a tool reference plane defined in at least one of opposite sides of the raceway groove of the raceway member, the tool reference plane being utilizable for a process of finishing the electrically insulating layer or for a thickness control of the insulating layer.

2. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 1, wherein the tool reference plane is utilizable for a process of finishing respective portions of the electrically insulating layer covering the opposite annular end faces or for a thickness control of those portions of the electrically insulating layer and wherein the tool reference plane is defined by an indented radial surface area of a step defined in the inside face of the raceway member.

3. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 1, wherein the tool reference plane is defined by a bare surface area in the end face of the raceway member, which is left uncovered by the insulating layer.

4. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 1, wherein the tool reference plane is a surface area formed by means of a hardened steel cutting process or a grinding process.
5. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 1, wherein the electrically insulating layer is provided on an outer peripheral surface and opposite annular end faces of the outer raceway member and wherein the tool reference plane is provided on respective sides of the raceway groove defined on the inner peripheral surface of the outer raceway member and is engageable with an outer peripheral surface of a tapered mandrel.
6. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 1, wherein the electrically insulating layer is provided on an outer peripheral surface and opposite annular end faces of the outer raceway member and wherein the tool reference plane represents a tapered surface defined by portions of the inner peripheral surface of the outer race excluding the raceway groove defined adjacent such portions.
7. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 6, wherein a tapered surface which is an inner peripheral surface of the outer race has a gradient of 1/100 to 1/3000.
8. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 5, wherein the electrically insulating layer is a layer made of a ceramic material.
9. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 5, wherein the electrically insulating layer is made of a polyphenylene sulfide resin.
10. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 5, which is a deep groove ball bearing.
11. The electrocorrosion preventive rolling bearing assembly as claimed in Claim 5, which is a cylindrical roller bearing of which outer race has a rib.